

04-06-04  
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

George D. Purvis III

Serial No.:

10/655,870

Filing Date:

September 5, 2003

Title:

*Calculating a Potential of Mean Force (PMF) Score of  
a Protein-Ligand Complex*



Commissioner For Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Dear Sir:

|   |
|---|
| <p>Certificate of Mailing by<br/>Express Mail No. EV 324643285 US<br/>I hereby certify that this correspondence is being<br/>deposited with the United States Postal Service<br/>"Express Mail Post Office to Addressee" under<br/>37. C.F.R. 1.10 on the date shown below, and<br/>addressed to Commissioner for Patents, P.O. Box<br/>1450, Alexandria, Virginia 22313-1450.</p> <p>Name: <u>Willie Jiles</u><br/>Willie Jiles</p> <p>Date: April 7, 2004</p> |
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**INFORMATION DISCLOSURE STATEMENT**

Applicant respectfully requests, pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, that the references listed on the attached PTO-1449 form be considered and cited in the examination of the above-identified patent application. Copies of the references are enclosed for the convenience of the Examiner. No representation is made that a search has been made, that the references are material to the patentability of the present application, or that the references qualify as prior art.

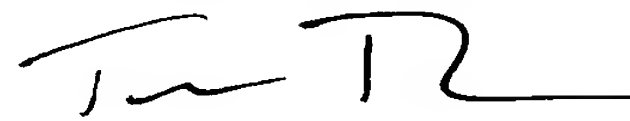
**REMARKS**

Pursuant to 37 C.F.R. § 1.97(b)(3), Applicant believes this Information Disclosure Statement has been filed before the mailing date of the first Official Action. Therefore, Applicant believes no fee is due. However, if a fee is required, the Commissioner is hereby authorized to charge any fees or credit any overpayments to Deposit Account No. 02-0384 of Baker Botts L.L.P.

Respectfully submitted,

BAKER BOTTS L.L.P.

Attorneys for Applicant



Travis W. Thomas  
Reg. No. 48,667

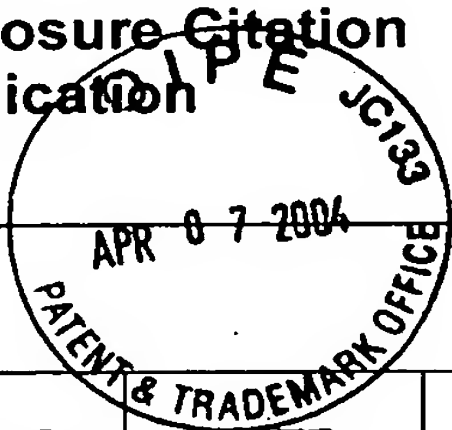
Date: April 7, 2004

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**05073**

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|---|----------|--|-------------|---|--------------|---|----------------------|
| PTO-1449  |          | Application No.<br><b>10/655,870</b>   |             | Applicant(s)<br><b>George D. Purvis III</b> |              |   |                      |
| <b>Information Disclosure Citation<br/>in an Application</b>  |          | Docket Number<br><b>016939.0103</b>  |             | Group Art Unit<br><b>Unknown</b>            |              | Filing Date<br><b>September 5, 2003</b> |                      |
|   |          |  |             |   |              |   |                      |
| <div style="text-align: center;">  <b>U.S. PATENT DOCUMENTS</b> </div>   |          |  |             |   |              |   |                      |
|   |          | <b>DOCUMENT NO.</b>  | <b>DATE</b> | <b>NAME</b>                                 | <b>CLASS</b> | <b>SUBCLASS</b>                         | <b>FILING DATE</b>   |
|   | <b>A</b> |  |             |   |              |   |                      |
|   | <b>B</b> |  |             |   |              |   |                      |
|   | <b>C</b> |  |             |   |              |   |                      |
|   | <b>D</b> |  |             |   |              |   |                      |
| <b>FOREIGN PATENT DOCUMENTS</b>   |          |  |             |   |              |   |                      |
|   |          | <b>DOCUMENT NO.</b>  | <b>DATE</b> | <b>COUNTRY</b>                              | <b>CLASS</b> | <b>SUBCLASS</b>                         | <b>TRANSLATION</b>   |
|   | <b>E</b> |  |             |   |              |   | <b>YES</b> <b>NO</b> |
| <b>NON-PATENT DOCUMENTS</b>   |          |  |             |   |              |   |                      |
|   |          | <b>DOCUMENT (Including Author, Title, Source, and Pertinent Pages)</b>   |             |   |              |   | <b>DATE</b>          |
|   | <b>F</b> | Muegge I., "The Effect of Small Changes in Protein Structure on Predicted Binding Modes of Known Inhibitors of Influenza Virus Neuraminidase: PMF-Scoring in Dock4," Medicinal Chemistry Research, 1999, pp. 490-500         |             |   |              |   | 1999                 |
|   | <b>G</b> | Muegge, I. et al., "Evaluation of PMF Scoring in Docking Weak Ligands to the FK506 Binding Protein," Journal of Medicinal Chemistry, 1999, vol. 42, no. 14, pp. 2498-2503  |             |   |              |   | 1999                 |
|   | <b>H</b> | Muegge et al., "A General and Fast Scoring Function for Protein-Ligand Interactions: A Simplified Potential Approach," Journal of Medicinal Chemistry, 1999, vol. 42, no. 5, pp. 791-804                                     |             |   |              |   | 1999                 |
|   | <b>I</b> | Ha, S. et al., "Evaluation of Docking/Scoring Approaches: A Comparative Study Based on MMP3 Inhibitors," Journal of Computer-Aided Molecular Design, vol. 14, pp. 435-448, 2000  |             |   |              |   | 2000                 |
|   | <b>J</b> | Montgomery, J. et al., "Structure-Based Design of Inhibitors of Purine Nucleoside Phosphorylase, 1.9-(Arylmethyl) Derivatives of 9-Deazaguanine," Journal of Medicinal Chemistry, vol. 36, no. 1, pp. 55-69, January 8, 1993 |             |   |              |   | 01/08/1993           |
|   | <b>K</b> | Farutin, V., "Structure-Activity Relationships for a Class of Inhibitors of Purine Nucleoside Phosphorylase," Journal of Medicinal Chemistry, vol. 42, no. 13, pp. 2422-2431, July 1, 1999                                   |             |   |              |   | 07/01/1999           |
|   | <b>L</b> | Morris, G. et al., "Automated Docking Using a Lamarckian Genetic Algorithm and an Empirical Binding Free Energy Function," Journal of Computational Chemistry, vol. 19, no. 14, pp. 1639-1662, 1998                          |             |   |              |   | 1998                 |
|   | <b>M</b> | Lipkowitz, K., et al., "Reviews in Computational Chemistry," Wiley-VCH, Volume 17, 2001  |             |   |              |   | 2001                 |
| <b>EXAMINER</b>   |          |  |             | <b>DATE CONSIDERED</b>                      |              |   |                      |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant. |          |  |             |   |              |   |                      |